

For Research Use Only

Stathmin 1 Polyclonal antibody

Catalog Number: 11157-1-AP

Featured Product

28 Publications



Basic Information

Catalog Number:

11157-1-AP

Size:

150ul, Concentration: 750 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1633

GenBank Accession Number:

BC014353

GeneID (NCBI):

3925

UNIPROT ID:

P16949

Full Name:

stathmin 1/oncoprotein 18

Calculated MW:

18 kDa

Observed MW:

18 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:1000-1:4000

IHC: 1:50-1:500

IF/ICC: 1:50-1:500

FC (Intra): 0.40 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human

Cited Species:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: Jurkat cells, HepG2 cells, PC-12 cells

IHC: human gliomas tissue, human lymphoma tissue

IF/ICC: HeLa cells,

FC (Intra): HeLa cells,

Background Information

Stathmin 1 (STMN1) normally regulates microtubule dynamics either by sequestering free tubulin heterodimers or by promoting microtubule catastrophe. STMN1 is highly expressed in fetal and adult brain, spinal cord, and cerebellum. Many different phosphorylated forms are observed depending on specific combinations among the sites which can be phosphorylated. Phosphorylation of stathmin is involved in response to NGF, neuron polarization and microtubule polymerization inhibition activity. Increased expression of STMN1 has been observed in a variety of human malignancies, such as colorectal primary tumors and metastatic tissues, but its association with melanoma is so far not well known.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|----------------|-----------|-------------------|-------------|
| Heidi R Fuller | 26370173 | Mol Cell Neurosci | WB, IHC, IF |
| Lei Zhao | 30202098 | Oncogene | WB |
| Xia-Ying Kuang | 26087399 | Oncotarget | IHC |

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

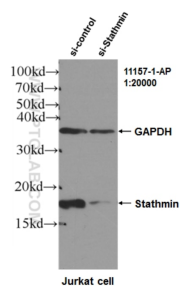
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

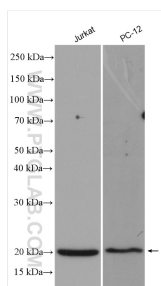
E: proteintech@ptglab.com
W: ptglab.com

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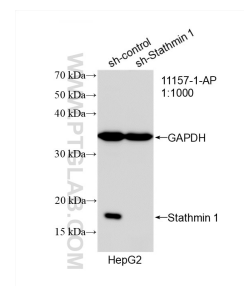
Selected Validation Data



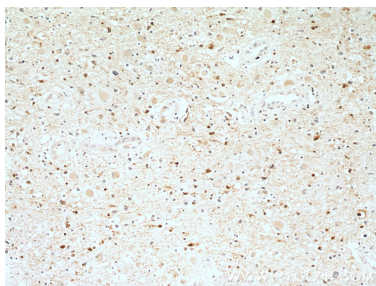
WB results of Stathmin antibody (11157-1-AP, 1:20000) with si-control and si-Stathmin transfected Jurkat cells..



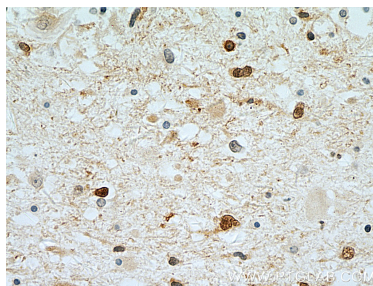
Various lysates were subjected to SDS PAGE followed by western blot with 11157-1-AP (Stathmin 1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



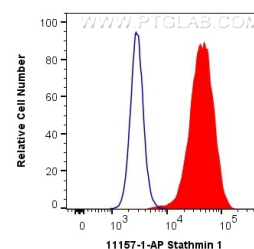
WB result of Stathmin 1 antibody (11157-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Stathmin 1 transfected HepG2 cells.



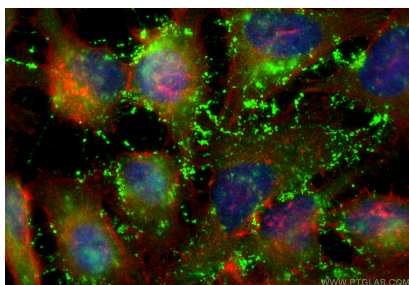
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 11157-1-AP (Stathmin 1 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human gliomas using 11157-1-AP (Stathmin 1 antibody) at dilution of 1:50 (under 10x lens).



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug Anti-Human Stathmin 1 (11157-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using Stathmin 1 antibody (11157-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).